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THESIS

A PRAGMATIC ASSIZEMENT OF DEFENSE CONTRACTOR RISK, PROFITABILITY, AND DEBT: 1976-1984

Ъу

David Joseph Louk

June 1987

Thesis Advisor:

Dan C. Boger

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A Pragmatic Assizement of Defense Contractor Risk, Profitability, and Debt: 1976-1984

by

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Submitted in partial fulfillment of the requirements for the degree of

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ABSTRACT

This thesis is an investigation into the measurement and analysis of the relationship between defense contractor risk and profit levels as compared to commercially oriented firms' risk and profit levels. Past studies that have attempted to quantify the interrelationship of risk and profit are examined. Hurdle's leverage, risk, market structure, and profitability model is used as a basis for the current model of risk and profitability. Empirical analyses of defense contractor risk and profit relationships are performed using least squares regression analysis, Chow tests, and three stage simultaneous regression analysis.



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I. INTRODUCTION

A. PURPOSE

Defense oriented firms have been studied extensively in the past to determine if the remuneration they receive is commensurate with a reasonable profit level. The defense industry is usually compared to the commercially oriented industry as a basis in profit level studies. The importance of equitable profit levels for defense firms is stated in the objectives of the <u>Defense Financial and Investment Review</u>, as, "Reform of federal procurement practices (are important) to insure the effective and efficient spending of public funds and at the same time maintain the viability of the defense industrial base." [Ref. 1:p. I-1]

Past studies of defense industry profitability have been attacked on numerous issues. Martin in his work on contractor risk points out, "previous studies have been widely criticized for biased premises, nonrepresentative samples, inaccurate data, and misleading variations in statistical averages." [Ref. 2:p. 10] In addition to the above inadequacies in previous studies, risk had not been factored in as a regulator of profit until Martin broached the risk factor in his study of the issue in An Empirical Assessment of Defense Contractor Risk 1976-1984. Martin says,

None of the prior studies has totally reconciled the fact that rates of return are not completely comparable for having been earned under varying exposures to risk. Rather than ask what defense contractors' observed rates of return are, a more appropriate question would be whether defense contractors are appropriately rewarded for creative and wise risk taking. [Ref. 2:p. 10]

The purpose of this study is to expand on Martin's work exploring the profit versus risk issue. A basis for this exploration is the model which was constructed by Gloria Hurdle in 1974. Hurdle's model, which analyzed a cross section of American firms, will be adapted to analyze commercial versus defense firms while measuring risk, profit, and debt.

This investigation will seek a determination of profit, or return on equity levels, for defense firms, and compare those levels to commercially oriented industries. The profit levels will be examined for the amount and influence of risk involved and the effect of risk on profit levels.

B. OVERVIEW

In order to comprehend the profit versus risk relationship, previous work on this relationship must be examined. Chapter II takes a look at Martin's work on contractor risk and Hurdle's model for measuring risk and profit.

With a solid foundation of knowledge of the profit versus risk issue, a model for measuring these factors in defense and commercial firms is developed in Chapter III. The empirical formulation of profit and risk levels is presented in what the author calls the Boger model.

Chapter IV attempts to empirically assess the results of the Boger model. Conclusions drawn from this assessment are presented in Chapter V.

II. MARTIN AND HURDLE ANALYSIS OF RISK AND PROFIT

This chapter explores some of the previous work that has been attempted in the field of risk and profit forecasting or the explanation of profit as a factor of risk. Both profit and risk are easily quantifiable, but as the following studies show, they are not easily captured in a model which makes simultaneous predictions of risk and/or profit.

A. MARTIN ANALYSIS

Wayne Martin in his paper, An Empirical Assessment of Defense Contractor Risk 1976-1984, "analyzed four possible methods for the evaluation and quantification of defense contractor risk." [Ref. 1:p. 121] Martin did a mean-variance analysis of rate of return, capital asset pricing model, mean-variance analysis of backlog, and mean-variance analysis of five-year defense program elements. Martin used 13 DOD oriented firms and 36 commercially oriented firms for his data base.

Martin's objective was to quantify the relationship between defense contractors' risk and rate of return. He showed that while risk can be empirically assessed and rate of return can easily be measured, the two factors do not fit smoothly in a simple model tying the two factors of risk and rate of return together.

B. HURDLE ANALYSIS

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In 1974 Gloria Hurdle presented what will be called the Hurdle model. This model is a simultaneous three-equation regression model that looked at leverage, risk, market structure, and profitability. Hurdle's model attempted to explain and quantify the relationships that exist between leverage, market structure, risk, and profitability. Hurdle used 228 United States manufacturing firms that covered 85 different industries in the 1960's.

Hurdle based her model on previous studies completed by Hall and Weiss, 1967; Shepard, 1971, 1972; Stigler, 1963; Kilpatrick, 1968; Collins and Preston, 1969; and Gale, 1972. All of these authors "have included a risk variable or a financial structure variable or both in a linear regression model. They commonly represented the degree of risk by the variability of profit over time (hereafter denoted σ)." [Ref. 3:p. 478]

According to Hurdle, stockholders are overwhelmingly risk averters who require a higher return, a risk premium as it were, for taking on more risk. Hurdle stated that when using profit variability for risk, its correlation with rate of return should be positive when the risk premium hypothesis is used. [Ref. 3:p. 478]

Hurdle stated that "there are two major hypotheses concerning risk and debt: (1) risk premium--high risk leads

to high rate of return. (2) debt--requires low business risk, but causes large financial risk." [Ref. 3:p. 478]

According to Hurdle, a business's risk should be low under a minimum of two conditions. The first condition is when the industry is riskless. The second condition is when the business has the power to maintain stable profit through control of the industry's price or market structure. Because of this, a third condition must be included. Market power lowers business risk and allows for higher debt and rate of return.

These relationships described by Hurdle are conceptually illustrated in Figure 1. [Ref. 3:p. 479]

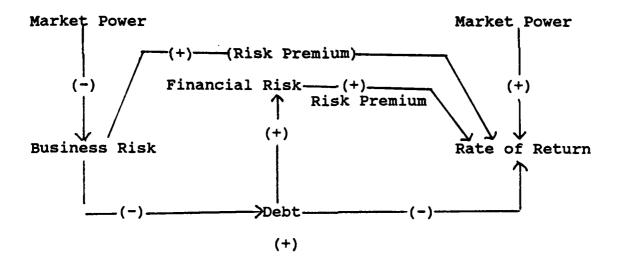


Figure 1. Market Power

The coefficients of these variables in a regression will be unknown a priori regardless of the variable used to estimate the business risk. Hurdle stated in her paper, The upper loop indicates a positive relationship between business risk and return on equity, while the lower loop indicates a negative relationship. Similarly, the relationship between debt and profitability is unpredictable. If the bottom loop dominates then debt and profits would be positively correlated. However, if low debt reflects large business risk, then the upper loop implies a negative correlation between debt and profitability. [Ref. 3:p. 479]

Hurdle uses a graph to show how risk is related to earnings on equity when considering two different types of firms, one being risk averse and the other being less risk averse.

Figure 2 [Ref. 3:p. 479] shows the earnings on equity plotted against risk to stockholders. Curve I is the risk averse firm, while curve II is the less risk averse firm. Risk to stockholders includes both business and financial risk.

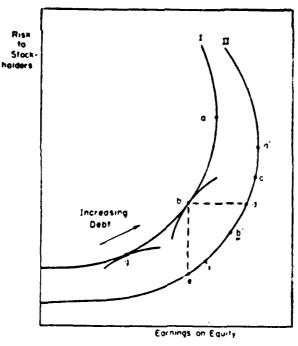


Figure 2. The Earnings-Risk Curve

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Hurdle describes the curves as:

Business risk varies from industry to industry, but it can be partially controlled by the firm, i.e., there is large inter-industry variation. Earnings and risk increase together up to some maximum (points A and A'), where the cost of debt becomes so high that earnings decrease with further debt. This is due to the rate of interest rising as debt increases. The firm is assumed to have a utility function, from which it decides the point on the earnings-risk curve which maximizes utility. The more horizontal the indifference curves, the more averse the risk to each firm is. Thus, the risk averse firm might choose point G, while a less risk averse firm would prefer point B.

Curve II represents a firm with an alternative market structure. The ability of a firm to control price should decrease its riskiness (business risk), which would allow it to increase its debt (and thus increase return on equity) without increasing risk to stockholders. Thus an advantaged firm (one with market power) would have an earnings-risk curve somewhat like curve II in Figure 2.

One can compare points on these two curves representing the same debt. Consider point B of Figure 2. This point represents some level of debt and some level of financial risk associated with that debt. One can locate the point on curve II corresponding to that same debt. Since financial risk corresponding to the same debt will be the same for both firms, but business risk will be lower for firm II, its risk to stockholders will be lower. Second, the earnings of firm II are higher because of its market power, plus the lower cost of its capital. Thus, B' (which represents the same debt as B) must lie somewhere between points D and E.

This diagram shows the relationships among risk, earnings, and leverage depending on the utility functions of firms and must therefore be determined empirically. For example, if firm I chooses point B, and firm II chooses point C, then firm II will have higher debt, higher earnings, and higher total risk to stockholders. On the other hand, if firm II chooses point F, it will have lower debt, lower risk and higher earnings. Debt, therefore, cannot be used to measure business risk, since both C and F have the same business risk but different levels of debt. [Ref. 3:p. 480]

C. EQUATIONS

Hurdle's hypotheses are that can be used to measure total risk and that financial structure reflects an opportunity for the businessman to increase return on equity. She employs three dependent variables which are risk, financial structure, and rate of return using a three-equation simultaneous regression model to test the hypothesis.

1. Risk

According to Hurdle, "a large market share or strong oligopoly group should reduce business risk, because market share is usually related to market power or the ability to control price." [Ref. 3:p. 480] Size can be used to spread loses which decrease. Business risk may be alleviated by advertising intensity because it creates market power and also because it is an expense which can be cut when profits start to drop off.

2. Debt

"High-risk firms should have lower debt." [Ref. 3:p. 480] Hurdle also states that fast growing firms are likely to have high debt. The reasons for this are that the firm may be out of equilibrium due to fast or unexpected growth. Another reason for high debt among fast growth firms is that stockholders prefer debt for financing growth instead of new stock issues which dilute equity.

3. Profits

Hurdle's premise is that, "market share and the extent of oligopoly should be correlated with higher profits by allowing firms some control over price." [Ref. 3:p. 480]

The equations to describe debt, risk, and profit are:

- Risk = constant market share advertising assets
 concentration of market + (total assets/sales)
 + debt + demand variance

Profit = constant + market share + advertising ± assets + concentration of market ± debt ± risk

D. HURDLE'S CONCLUSIONS

Hurdle's research enabled her to make a tentative indication that while market power keeps risk at a lower level than firms with low-market power, both high and low-market power firms have about the same relative levels of debt. Market structure (i.e., control over price) is the determining factor for profit differences among similar firms.

III. THE DATA AND METHODOLOGY

This chapter presents the data sources and methodology used in the analysis of the data. The empirical formulation of the data is presented in the Boger model.

A. THE DATA

The data base has its foundation in Martin's work, An Empirical Assessment of Defense Contractor Risk 1976-1984 [Ref. 2]. Martin based his work on 49 different companies for the years 1976-1984 broken into two groups consisting of 36 commercially oriented firms and 13 defense oriented firms. The 36 commercially oriented firms had less than 30 percent Department of Defense sales, and the 13 defense firms had greater than 30 percent Department of Defense sales.

This investigation uses the same 49 companies for the years 1976-1984 as a basis. This group of firms has been reduced to 13 defense firms and 24 commercially oriented firms. The reduction in commercially oriented firms is due to the lack of backlog data for the 12 discarded firms. The 37 firms used in this work are contained in Tables 1 and 2.

Y STATES AND SOUTH SECTIONS IN THE SECTION OF THE S

Each company has nine variables used in this study which are contained in the Appendix. These nine variables are discussed below.

TABLE 1
SAMPLE OF 24 COMMERCIALLY-ORIENTED CONTRACTORS

Company	NYSE Symbol
AVCO Corporation	AV
Control Data Corporation	CDA
E-Systems, Inc.	ESY
Emerson Electric Company	EMR
Fairchild Industries, Inc.	FEN
General Electric Company	GE
Goodyear Tire & Rubber Co.	GT
Gould, Inc.	GLD
Harris Corporation	HRS
Hercules, Inc.	HPC
·	 -
Honeywell, Inc.	HON
International Business Machines	IBM
Motorola, Inc.	MOT
Penn Central Corporation	PC
RCA Corporation	RCA
The Signal Companies, Inc.	SGN
Singer Company	SMF
Sperry Corporation	SY
TRW Inc.	TRW
Teledyne, Inc.	TDY
Tenneco, Inc.	TGT
Textron, Inc.	TXT
Todd Shipyards Corp.	TOD
Westinghouse Electric Corp.	WX

TABLE 2

SAMPLE OF 13 DOD-ORIENTED CONTRACTORS

Company	NYSE Symbol
Boeing Company	BA
FMC Corporation	FMC
General Dynamics Corporation	GD
Grumman Corporation	GQ
Litton Industries Inc.	LIT
Lockheed Corporation	LK
Martin Marietta Corporation	ML
McDonnell Douglas Corporation	MD
Northrop Corporation	NOC
Raytheon Company	RTN
Rockwell International Corp.	ROK
Sanders Associates, Inc.	SAA
United Technologies Corp.	UTX

Backlog (BKLG) consists of those orders which cannot currently be delivered but will be filled within a later time period. Backlog data was collected from the SEC 10K reports in the same manner as described in Martin's An Empirical Assessment of Defense Contractor Risk 1976-1984 [Ref. 1:p. 110].

Debt (DEBT) is defined as the total liabilities of a firm as reported on the SEC 10K reports.

Assets (ASST) is defined as the total assets of a firm as reported on the SEC 10K reports.

Profit variation (PVAR) is a proxy variable for risk.

PVAR is the result of taking the current year rate of return

minus the mean rate of return for the years 1976-1984 and

squaring the result.

Leverage (LEV) is the result of the current year debt divided by the sum of current year debt and current year shareholders' equity.

Assets divided by sales (ASSAL) is current year assets divided by current year sales for the year in question.

Sales (SALES) are a revenue transaction where goods or services are delivered to a customer in return for cash or an obligation to pay. Sales figures were taken directly from each firm's SEC 10K reports.

Shareholders' equity (SHEQ) is the owners' equity of each firm. Shareholders' equity was taken directly from each firm's SEC 10K reports.

Return on equity (ROE) is the rate of return on common shareholders equity calculated as:

B. METHODOLOGY

The methodology of the equations involved as derived from Hurdle's model [Ref. 3:p. 481] discussed earlier in Chapter II. Hurdle used three equations to describe risk, debt, and profits. The three equations, with their expected signs are described and contrasted below.

Hurdle's equation for risk is:

Boger's equation for risk is:

PVAR = constant - backlog + leverage - asset

In the Boger model, backlog is used to capture market share, concentration of market, demand variance, and advertising used in Hurdle's equation. Debt was captured by the same method used by Hurdle, but is called leverage in the Boger model. Recall that leverage is the result of debt divided by the sum of debt and shareholders' equity.

Hurdle's equation for debt is:

Boger's equation for debt is:

Debt = constant + backlog - return on equity - PVAR + asset + (total assets/sales)

Once again, market share, growth in sales, and concentration of market are captured in backlog. Hurdle's profit is stated in the Boger equation as return on equity. Risk is measured by the term PVAR. The other terms in the two equations are the same except for debt. Debt in the Boger model is simply the current year total debt.

Hurdle's final equation is for profit.

Profit = constant + market share + advertising ± asset + concentration of market ± debt ± risk

The Boger profit equation is:

Return on equity = constant + backlog - leverage - asset + PVAR

As before, backlog was used to capture the esoteric terms (market share, advertising, and concentration of market) used in the Hurdle model. The other terms remain the same.

IV. EMPIRICAL ANALYSIS

This chapter presents the empirical analysis and the implications of this analysis. The methods of investigation are ordinary single equation regression for the combined firms, defense firms, and the commercial firms; Chow tests on the regression of individual years, and regression of three simultaneous equations for the combined years of 1976-1984.

A. ORDINARY LEAST SQUARES REGRESSION

The data contained in Table 3 show how the regressions for the Boger model compare to the Hurdle model for the year 1984. Similar results were obtained for the years 1983-1984. Results for the Boger model were in most cases not statistically significant.

The following differences were observed when comparing both defense firms and commercial firms combined to the Hurdle model. Profit variability is reduced by the constant factor in the Boger model for risk and is increased in the Hurdle model. The reason is that the profit variable is a fairly static term over the long run, and the constant is negative to dampen out the effects of the other variables in the equation. The Boger debt model has two variables which differ from the Hurdle debt model. These terms are profit variability and assets divided by sales. Profit variability

TABLE 3

ORDINARY LEAST SQUARES REGRESSION VARIABLES

COMBINED FIRMS

ROE = Constant + BKLG - LEV - ASST + PVAR	Boger
ROE = Constant + BKLG ± DEBT ± ASST ± RISK	Hurdle
DUAD - Constant DVIC IDVI ACCO	D
PVAR = -Constant - BKLG + LEV - ASST	Boger
RISK = Constant - BKLG + Debt - ASST	Hurdle
DEBT = Constant + BKLG - ROE + PVAR + ASST - ASSAL	Boger
DEBT = Constant ± BKLG ± ROE - PVAR + ASST + ASSAL	Hurdle
DEFENSE FIRMS	
ROE = Constant + BKLG + LEV - ASST + PVAR	Boger
ROE = Constant + BKLG ± DEBT ± ASST ± RISK	Hurdle
	`
PVAR = -Constant + BKLG + LEV - ASST	Boger
RISK = Constant - BKLG + DEBT - ASST	Hurdle
DEBT = -Constant + BKLG + ROE + PVAR + ASST - ASSAL	Boger
DEBT = Constant \pm BKLG \pm ROE - PVAR + ASST + ASSAL	Hurdle
COMMERCIAL FIRMS	
ROE = Constant + BKLG - LEV + ASST + PVAR	Boger
ROE = Constant + BKLG ± DEBT ± ASST ± RISK	Hurdle
PVAR = -Constant - BKLG + LEV - ASST	Boger
RISK = Constant - BKLG + DEBT - ASST	Hurdle
·	
DEBT = Constant + BKLG - ROE + PVAR + ASST - ASSAL	Boger
DEBT = Constant ± BKLG ± ROE - PVAR + ASST + ASSAL	Hurdle

is a positive variable in the Boger model, while in the Hurdle model it is negative. The reason for this is that risk or profit variability tends to increase the debt load rather than decrease it. Hurdle found the same evidence for the years 1960 and 1964 in her work but chose to state that risk decreases the debt load.

Assets divided by sales have a negative influence on debt in the Boger model while the opposite is true for the Hurdle model. Debt is commonly employed to increase assets which in turn increase sales. It follows then that assets divided by sales would have a calming effect or negative effect on overall debt.

The comparison of the Boger model to the Hurdle model on defense firms only and commercial firms only yields the same results as above with two exceptions. The constant in the Boger model for defense firms for the debt equation has a negative effect as opposed to Hurdle's positive effect. Once again this is a dampening effect for the other variables in the equation. The other exception is that in the Boger risk equation backlog increases risk while in the Hurdle risk equation backlog decreases risk. The reason for this difference in the Boger model is that defense firms with a large backlog are more likely to have higher risk because of their inability to secure new contracts due to that large backlog.

B. CHOW TEST ON STRAIGHT LINE REGRESSION

A Chow test was performed on the results of the regression equation's sum of squares residuals for the combination of defense and commercial firms, defense firms only, and commercial firms only. The results of this Chow test are presented in Table 4.

TABLE 4
CHOW TEST

	ROE	5% CRITICAL VALUE	<u>PVAR</u>	5% CRITICAL VALUE	DEBT	5% CRITICAL VALUE
1984	2.03	2.57	.17	2.70	.38	2.49
1983	3.38		.99		.46	
1982	1.69		1.76		.65	
1981	4.15		3.87		3.89	
1980	1.60		.46		.42	
1979	.37		.20		.57	
1978	1.04	1	0.56		.84	
1977	1.38		.73		.64	
1976	1.02		.91		1.60	

The data from the years 1976-1984 were pooled to perform the Chow tests. Pooling was performed by combining all the years and comparing that to the combination of previous years plus the present year. An example makes this concept clearer. The years in this example are 1979-1984. All of

the data from 1979 through 1984 are combined and compared to the data from the years 1980 through 1984 plus the data from 1979.

The Chow test showed that defense and commercial firms are the same with respect to profit, debt, and risk with five exceptions over nine years. In 1983 profit showed a significant difference but risk and debt did not. In 1981 profit, debt, and risk all showed significant differences between commercial and defense firms. This may be ascribed to the booming defense economy and the lagging commercial economy occurring at that time. The remaining difference is the risk in 1978. This may be an anomaly. All five exceptions need scrutinizing that is beyond the scope of this work to fully understand. It is concluded that all time series observations may be pooled with cross section observations.

In conjunction with the above discussion of the tests it should be stated that a two-stage least-squares simultaneous regression of all years combined was performed on all the data. The results of the two-stage regression were inconclusive.

C. THREE STAGE LEAST SQUARES MODEL

A regression analysis for the years 1976-1984 combined was completed on the firms under investigation. This regression analysis was a three-stage least squares model performed on the three simultaneous equations for debt,

profit variability, and profit using the Boger model. The analysis was completed on all firms combined, defense oriented firms only, and commercially oriented firms only.

The data in Tables 5 and 6 compare and contrast the differences that arose between the data bases of combined, defense only, and commercial only firms. These differences are discussed in the section following Table 7.

TABLE 5
THREE-STAGE LEAST SQUARES REGRESSION DATA

COMBINED FIRMS

DEPENDENT	PROFIT				
VARIABLE	ROE	VARIABILITY	DEBT		
Sum of Squared Residuals	19986.9	39297700	57936900		
Standard Error	7.74	343.5	1319		
Mean	14.7	68.4	2389.7		
Standard Deviation	9.6	356.1	2607.6		
R-Squared	.355	.06	.743		
R-Squared Adjusted	.357	.07	.744		
Durbin-Watson Statistic	1.8	2.01	1.8		

DEFENSE FIRMS

Sum of Squared Residuals	5575.1	22179700	6215930
Standard Error	6.9	138.2	231.4
Mean	16.25	56.1	1778.2
Standard Deviation	7.9	145.6	1281.9
R-Squared	.241	.091	.96
R-Squared Adjusted	.247	.099	.96
Durbin-Watson Statistic	1.85	2.1	2.1

COMMERCIAL FIRMS

Sum of Squares Residual	13129.5	36693300	53633400
Standard Error	7.7	412.1	1575.7
Mean	13.8	74.7	2759.7
Standard Deviation	10.3	429.2	3049.1
R-Squared	.42	.07	.731
R-Squared Adjusted	.43	.08	.732
Durbin-Watson Statistic	1.9	1.9	1.9

TABLE 6

THREE-STAGE LEAST SQUARES REGRESSION COEFFICIENTS
(Standard Errors in Parentheses Below Each Coefficient)

	COMBINED	DEFENSE	COMMERCIAL
ROE			
Constant	14.5	6.1	17.6
	(1.8)	(3.3)	(2.14
Backlog	.00019	.0004	0005
Toylowage	(.001)	(.0004)	(.0002)
Leverage	1.12 (3.1)	21.5 (5.25)	-5.6 (3.5)
Assets	.000058	0008	.0001
	(.76)	(.0005)	(.00008)
Profit Variability	016	02	01
-	(.12)	(.004)	(.002)
PROFIT VARIABILITY			
Constant	-327.1	-48.2	-418.2
	(81.1)	(66.8)	(110.3)
Backlog	11 ´	.014	01
	(.008)	(.008)	(.01)
Leverage	721.6	244.6	887.1
_		(104.8)	(176.8)
Așsets	0001	03	.0003
	(.002)	(.01)	(.004)
DEBT			
Constant	389.1	-421.4	564.7
	(174.6)	(68.9)	(244.1)
Backlog	.17	.013	.2
ROE	(.03)	(.01)	(.05)
ROE	3.13	15.1	17
Profit Variability	(9.2) .37	(2.9) .78	(14.5) .41
riolic validbility	(.45)	(.16)	(.6)
Assets	.35	.58	.32
	(.01)	(.02)	(.01)
Assets/Sales	33.8	211.4	33.9
	(38.6)	(25.7)	(52.8)

The data contained in Table 7 shows how the Boger model compares to the Hurdle model for the combined years 1976-1984. It is interesting to note how closely the Boger model approximates the Hurdle model when three-stage simultaneous

TABLE 7

THREE-STAGE REGRESSION VARIABLES

COMBINED FIRMS

ROE = Constant + BKLG + LEV + SST - PVAR	Boger			
ROE = Constant + BKLG ± DEBT ± ASST ± RISK	Hurdle			
PVAR = -Constant - BKLG + LEV - ASST	Boger			
RISK = Constant - BKLG + DEBT - ASST	Hurdle			
DEBT = Constant + BKLG + ROE + PVAR + ASST + ASSAL	Boger			
DEBT = Constant ± BKLG ± ROE - RISK + ASST + ASSAL	Hurdle			
DEFENSE FIRMS				
ROE = Constant + BKLG + LEV - ASST - PVAR	Boger			
ROE = Constant + BKLG ± DEBT ± ASST ± RISK	Hurdle			
PVAR = -Constant + BKLG + LEV - ASST	Boger			
RISK = Constant - BKLG + DEBT - ASST	Hurdle			
DEBT = -Constant + BKLG + ROE + PVAR + ASST + ASSAL	Boger			
DEBT = Constant ± BKLG ± ROE - RISK + ASST + ASSAL	Hurdle			

TABLE 7 (CONTINUED)

COMMERCIAL FIRMS

ROE = Constant - BKLG - LEV + ASST - PVAR	Boger
ROE = Constant + BKLG ± DEBT ± ASST ± RISK	Hurdle
PVAR = -Constant - BKLG + LEV + ASST	Boger
RISK = Constant - BKLG + DEBT - ASST	Hurdle

RISK = Constant - BKLG + DEBT - ASST

DEBT = Constant ± BKLG ± ROE - RISK + ASST + ASSAL Hurdle

for debt, while in the Hurdle model for debt, risk (profit variability) has a negative effect. The reason for this variance is the same as stated earlier for the least squares regression of individual years model discussed previously in this chapter. Risk or profit variability tends to increase the debt load rather than decrease the debt load as Hurdle concluded.

All other independent variables in the combined years for the Boger models on debt, profit, and risk have the same effects as the independent variables in the Hurdle model. It must be noted that profit variability for the Boger debt model of combined firms was not statistically significant, displaying a t-ratio of less than one.

When comparing the defense only firms and the commercial only firms using the Boger model against the Hurdle model,

TABLE 7 (CONTINUED)

COMMERCIAL FIRMS

ROE = Constant - BKLG - LEV + ASST - PVAR Boger

ROE = Constant + BKLG ± DEBT ± ASST ± RISK Hurdle

PVAR = -Constant - BKLG + LEV + ASST Boger

RISK = Constant - BKLG + DEBT - ASST Hurdle

DEBT = Constant + BKLG - ROE + PVAR + ASST + ASSAL Boger

DEBT = Constant ± BKLG ± ROE - RISK + ASST + ASSAL Hurdle

regression is used instead of the ordinary least squares regression described earlier in this chapter.

The constant terms in the regression equations are discounted for their positive or negative effects when compared to the Hurdle model. The following differences came to light when comparing both defense and commercial firms combined in the Boger model to the Hurdle model. Profit variability is a positive variable in the Boger model for debt, while in the Hurdle model for debt, risk (profit variability) has a negative effect. The reason for this variance is the same as stated earlier for the least squares regression of individual years model discussed previously in this chapter. Risk or profit variability tends to increase the debt load rather than decrease the debt load as Hurdle concluded.

All other independent variables in the combined years for the Boger models on debt, profit, and risk have the same effects as the independent variables in the Hurdle model. It must be noted that profit variability for the Boger debt model of combined firms was not statistically significant, displaying a t-ratio of less than one.

When comparing the defense only firms and the commercial only firms using the Boger model against the Hurdle model, the profit variability described above carries over to both defense only and commercial only firms. In fact, the heavy influence of the Boger debt model independent variable profit variability in defense firms influences the combined firms and the commercially oriented firms to a significant degree when all three are combined.

The other exception for the defense firms is that the Boger model has backlog increasing the risk while the Hurdle model has backlog decreasing the risk factor. The fact that the positive effect of backlog on risk carries over from ordinary least squares regression to the combined years three-stage regression further strengthens the previous explanation of defense backlog. Namely, large backlogs are detrimental to defense firms attempting to secure new contracts.

V. SUMMARY AND CONCLUSIONS

The overall purpose of this study was to explore the relationship and effects of risk to profit levels in defense firms as compared to commercial firms. This involved a look at the past studies of Martin and Hurdle.

Hurdle's models for debt, profit, and risk were adapted to defense firms and commercially oriented firms in the Boger model. This provides a tool to evaluate the integrated relationship of profit, risk, and leverage among defense contractors.

It has become clear from this study that models such as Hurdle's see the financial structure of firms in the long run with an economic point of view. That is to say that the market forces of the economy will tend to reach an achievable and predictable state over a period of many years.

The Boger model demonstrates that defense firms are managed with a short run view of the economy. The accounting models of the economy look at the present year data and performance while discounting past or future trends. This accountant's point of view has been shown by the effect of backlog on profit variability and in turn the effect of profit variability on the debt structure. As was

seen, backlog increases risk in the Boger model, and risk of profit variability increases debt.

Defense firms must operate in a short run mode due to the capricious nature of Department of Defense contracts and congressional impact on operations. Because defense firms must operate differently than commercially oriented firms, defense firms should not be judged by the same models used to measure profitability in commercially oriented firms.

APPENDIX

The following table (Table 8) shows the data for the individual defense and commercial firms. The data are listed by firm number which corresponds to an individual firm. The following list is used to identify the firms.

Firm #	Firm Name
1	Boeing Company
2	FMC Corporation
3	General Dynamics Corporation
4	Grumman Corporation
5	Litton Industries Incorporated
6	Lockheed Corporation
7	Martin Marietta Corporation
8	McDonnel Douglas Corporation
9	Northrup Corporation
10	Raytheon Company
11	Rockwell International Corporation
12	Sanders Associates, Incorporated
13	United Technologies Corporation
14	Avco Corporation
15	Control Data Corporation
16	E-Systems, Incorporated
17	Emerson Electric Company
18	Fairchild Industries, Incorporated
19	General Electric Company
20	Goodyear Tire & Rubber Company
21	Gould, Incorporated
22	Harris Corporation
23 24	Hercules, Incorporated
24 25	Honeywell, Incorporated International Business Machines
26 26	Motorola, Incorporated
27	Penn Central Corporation
28	RCA Corporation
29	The Signals Companies, Incorporated
30	Singer Company
31	Sperry Corporation
32	TRW Incorporated
33	Teledyne, Incorporated
34	Tenneco, Incorporated
35	Textron, Incorporated
36	Todd Shipyards Corporation
37	Westinghouse Electric Corporation

TABLE 8
SEC DATA

ALESB	SAL ES84 10354 . 10000 2837 . 79980 2837 . 79980 2603 . 59985 4605 . 59985 2547 . 79980 5995 . 69922 946 . 19985 16331 . 79688 16331 . 79688 1999 . 29980 27947 . 10000 1399 . 39990 1959 . 79980	55.0000 11.5976 11.
VARB	29. 40000 29. 40000 20. 10000 20. 10000	2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
SST8		92.0000 94.0000 94.0000 94.0000 111.0000 02.6998 90.6999 90.6999 10.0000 10.0000
DEBTS	856 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	03.0000 116.0000 30.6993 30.69998 30.69998 31.3999 31.3999 32.2998 53.0999
BKLG8		944.0000 110.3999 637.8999 039.7998 841.0000 863.7998 841.0000 700.0000 700.0000 500.0000

7655432109876554321098765543210

Source: 10K Reports

0E8	21.29999	5.8999	9.8999	3.8000	9.8999	8.0999	3.9000	3.0000	7.2000	9.7000	5.4000	5.5000	0.8000	1.8000	1.3999	8.7000	0.6000	8.0999	3.0000	0.5000	9.8000	4.4000	0.000.0	4.8999	0000.	0.5000	3.0000	0.2000	3.5000	7.7000	5.2000	. 5000	.8000	9.6000	7999	4.5000
SHEQ8	3695.00000	062.0000	543.5998	010.8999	151.8999	626.0000	343.7998	724.7998	979.1999	521.5998	317.2998	169.3984	167.7998	775.5998	285.8999	69.1999	222.8999	73.0000	3171.2998	854.6999	818.0998	366.8999	2380.8999	489.0000	78.0000	616.1999	0000.060	805.0000	483.6999	802.8999	756.5998	159.2998	440.0000	187.6999	130.7000	40.1998
EVS	0.56453	6500	.6238	. 5408	.6361	.7185	.6214	. 5966	. 4502	. 5703	.3971	. 5790	.8311	.8148	.3114	. 3726	.7600	.4915	.4880	.4118	. 5178	.4277	.4997	. 3600	. 4568	9515	7457	.4910	.6709	.4906	.4953	. 5845	. 5076	4625	.6594	1166.
SSALB	0.81949	.3871	.5550	.9509	. 3902	. 5673	.6407	.7053	.6004	.6296	.7054	.6064	. 5264	.9075	. 5067	.7130	.0333	. 8848	. 6048	.0383	.8501	.9230	.1797	. 5238	.7578	79/0.	.8130	.9177	. 5836	.1197	. 5742	. 7986	. 4631	.6861	1674	. 0 y 1 4

- i	BKLG83	DEB	18	PVAR83	#O I
9743	1992	0000	00	209	0,
445	2968	575.1999	836.1999	3.6400	146.2968
200	0000	635.2998	087.6999	6609	254.6999
791	0000	69.7998	999.3999	2.8900	959.0000
390	0000	003.7998	830,0000	.1599	490.0000
483	0000	534.7998	380.0998	0.0000	228.0998
234	0000	723.8999	791.7968	.2100	111,0000
268	6669	019.0998	596,0000	.1600	354.5000
505	0000	841.2998	728.6999	. 4400	630.6992
860	0000	863.7998	231,0976	1.9600	097.8984
376	7998	185.2000	466.1999	2100	578.0998
865	0000	936.3984	720 0976	1600	2001 099
450	0000	250.2968	388 1992	2.2500	1516 1999
045	0000	51.0976	77.5976		82 7968
652	8660	13.2000	370.5998	4299	826.7998
14	0000	3.7998	15.5998	1.0000	75.6999
404	5998	703.0998	948.3999	.2099	891.5000
0	6992	018.0000	288,0000	0.0900	797.0000
45	2998	69.5000	85.5000	.2500	9735.7968
~	0000	605.6999	487.6999	0.3600	335.3999
09	0000	75.7998	637.0998	. 5600	809.2998
392	0000	887.0998	175.1999	0.4900	629.0000
94	0000	350.0000	663.6992	.7600	779.0976
825	0000	24.0000	243.0000	1000	274.0000
7	6669	288.0000	236.0000	1.9600	328.0000
9	5000	369.1999	837.5998	.2499	538.8999
854	0000	9260.299	648.5000	1.6900	977.2968
82	0000	551.0000	184.0000	6605.	062,0000
630	0000	984.8999	420.2998	0.0400	476.5998
661	1999	880.8999	279.7968	4.8100	663.5976
108	0000	707.3999	321.2998	19.3599	492.8984
700	0000	11.0000	852,1999	0060.9	979.0000
300	0000	651.0000	287.0000	30.2499	770,0000
99	0000	914.8999	104.5998	.0099	979.7998
360	0000	223.2000	347.5998	5.6099	788.0998
300	0000	58.6992	69.0000	4.0000	32.5976

TABLE 8 (CONTINUED)

1	ASSAL83	LEV83	i	ROE83
_	9099.	. 5933	0000	1.7000
_	.8477	569	460.3999	000
_	.3968	. 5553	261.0000	2.7000
_	.4824	.5840	452.3999	4.5000
_	.0102	.5425	29.5998	3.7000
_	.4360	.7080	826.1999	1.7999
	.7373	.6448	845.2998	9.0999
	. 5907	. 5684	067.8999	3.3000
_	.6778	.6385	576.8999	7.5000
_	.6622	.4938	887.3999	6:3999
	.6459	. 5474	367.2998	6.3999
_	8064	.3972	81.0000	3.2000
_	. 5944	. 5660	783.6999	3.5000
_	.2188	.8218	137.8999	9.0000
_	.9153	.7919	826.5000	.9000
_	.4482	.0524	238.2999	3.2000
_	.7237	.3235	701.7998	7.7999
_	. 0638	.7413	245.2999	1.6000
_	.8690	.5160	270.0000	.0000
	.6147	.4961	3016.0000	9.0000
	.1140	.4051	885.0000	.0000
_	. 9048	. 5349	761.2998	9.1000
_	.8273	.4078	288.0998	3.5000
	.9758	.5038	313.6999	0.000.0
_	.6002	.3765	219.0000	. 5999
_	.7476	.3980	948.0000	2.5000
_	.1176	.4871	441.3999	1.4000
_	.8519	.7409	981.3999	.2000
	.8551	.4920	633.0000	3.9000
	. 5734	.6934	435.3999	.3000
_	.1321	. 5456	398.8999	.9000
_	9509.	.5140	613.8999	2.7000
_	.2931	.3143	41.1999	. 5000
	.4010	.8668	636.0000	9.2000
_	.7062	.4347	189.6999	7.5000
_	.4410	.6421	124.3999	4.2999
_	.8989	.6020	410.2998	.2000

Section (Section (Section))

&	KL 68	DEBT8	ASST8	82	SALES
9132.	000	000	7593.00000		000
1 × ×	5076	564 5000 666 5000	6 30 5000	20070	154 5000
919	0000	678.5000	993.8999	21.0000	056.5998
767	0000	159.8999	836.7998	54.7599	123.8984
780	0000	841.5998	464.0000	70.8898	613.0000
830	5998	039.5000	476.0998	29.1599	033.0998
528	1992	802.1999	621.7968	0.1600	331.8984
220	0000	45.5000	352.5000	. 2899	472.8999
309	0000	798.3999	510.1999	6.2500	217.2968
840	0000	773.0000	870.2968	.6400	395.3984
300	0000	185.2000	336.0998	.0400	436.1999
609	0000	574.5000	993.2968	1.9600	577.0976
148	5998	240.3984	307.5976	.4899	222.5998
962	0000	186.8984	911.8984	1.4400	292.0000
51	8660	124.3999	315.3999	.0400	754.3999
05	0998	61.0000	319.6999	.2500	502.2998
407	0000	674.7998	912.1999	.8400	093.1999
70	8984	417.0000	615.0000	.2500	500.0000
545	0000	428.6999	5885.8984	. 3600	589.1992
691	0000	611.1999	498.6999	. 3600	257.0000
000	0000	016.1999	612.8999	1.6900	646.1999
345	0000	960.3999	101.6999	.2400	621.8999
573	0000	312.0000	455.3984	0.0100	490.5976
705	7998	581.0000	541.0000	0.3600	681.5000
151	1999	133.0000	833.0000	. 5600	786.0000
555	8999	631.2998	099.0000	1.2100	165.3999
743	3999	681.6992	569.3984	2.8900	016.0000
238	0000	329.5000	024.0000	8.4899	631.0000
009	0000	986.2998	421.7998	.2399	523.3999
878	5000	896.6999	288.1992	2.2500	045.2968
010	0000	605.3999	124.7998	7.6400	132.0000
419	0000	204.2998	290.6999	7.6899	863.7998
00	0000	32.0000	23.0000	. 5600	43.0000
207	0000	810.8999	038.1999	30.2499	936.0000
500	0000	216.3999	333.2998	8.8100	715.8999
500	0000	74.7968	49.7968	9.0000	745.3984

0E8	122.12000000000000000000000000000000000	06060
SHEQ8	2813. 1175.00000 1175.00000 1676.89990 1676.89990 1711.79988 1711.79988 1725.00000 1725.00000 1725.00000 1725.00000 1725.00000 1725.00000 1725.00000 1725.00000 1725.00000 1725.00000 1725.00000 1725.00000 1725.00000 1725.00000 1725.00000 1725.00000	086.5999 691.0000 227.2998 116.8999 175.0000
8		. 3.955 . 3.97 . 6.19 . 6.19 . 6.19 . 6.19
AL8		

SALES	199	758.6992	977.7998	176.0000	6469.629	384.8984	6669.066	883.6992	039.6992	364.5000	2669. 299	877.6999	100.6992	572.0000	578.0998	1338.8999	240.0000	0323.5000	1139.5000	418.6999	856.8999	4582.1992	0000 025	3/0.0000 3/4 7000	2007 80C	775 0000	040.0000	4896.0976	285.0000	237.5998	584.0000	328.0000	610.3999	67.5000
PVAR81	0.0000	2400	98.0099	6.4899	4.4100	2.2500	0000.	0.6400	0060.	.6400	0.1600	4899	8.4100	0000.	1.0000	.3599	.0400	.6400	. 9600	0000.	.2500	0.0400	9900	2000 · 1		3.6100	2100	2900	.0000	4.0000	6609.	0.2500	.2499	8.4899
ASST8	000	289.2998	687.5998	105.0000	251.8999	384.1992	257.3999	363.7998	702.8984	277.0998	55.0976	893.7968	887.8984	280.3999	88.1999	902.3999	942.0000	972.8984	564.3999	409.3999	086.0000	4514.0000	107.0000	0000 702	750.077	008.000	573.1999	188.2968	126.5998	904.5000	95.0000	164.1999	289.1999	07.2968
BT8	000	217.2998 801.7998	393.6999	686.5998	051.8999	730.6999	763.5000	827.7998	792.2998	02.2999	342.5976	868.5000	310.2968	121.0000	45.0000	675.0998	14.0000	597.5000	86.5998	53.8999	982.3999	216.0000	946.000	268 7000	7007 807	349 7998	27.8999	798.5000	709.0000	198.0000	952.0000	37.1999	209.0000	86.5976
BKL G81	5976	391.3999 503.0000	865.5000	430.0000	966.2998	219.7968	729.5000	353.0000	640.0000	180.2000	572.5000	086.6999	145.0000	562.0000	11.5000	586.7998	08.0000	11.1999	639.0000	50.0000	295.0000	86.0000	75.0000	47.1477 66.1.147	2007	45.8999	600,0000	793.5000	62.0000	584.0000	990.0000	0000.90	25.0000	0000.00

0E8	17.79999	4.7000	7.7000	7.007		7777	0007.9	0.7000	1.1000	1.0000	5.3000	5.1000	4.3000	6.8000	0.8000	4.9000	9.7999	8.2999	8.0999	0.3000	7.0000	8.7000	3.3000	2.4000	.2000	2.9000	2.9000	3.2000	.9000	8.6000	3.1000	6660.9	4.2000	6662.9	1.9000	8.7000	. 5000
SHEQ8	2655.00000	502.2998	0000.270	600.6996	766.3770	410.044	200.0000	653.5000	493.8999	536.0000	910.5998	174.7999	212.5000	025.2998	577.5998	159.3999	443.1999	227.2999	28.0000	375.3999	877.7998	555.8999	103.5998	0000.860	161.0000	409.0000	309.2998	682.8899	658.1999	445.2998	389.7998	417.5998	706.5000	743.0000	27.0000	80.2000	0.6999
EV8	0.61821	. 51.55	7100.	V 101.		7100.	796	.6228	.6072	. 5433	. 5937	.3691	. 5747	.8260	.7709	4315	3692	7481	. 5641	.6023	. 4388	5509	.4709	. 5136	.3760	.4611	.7189	.8220	.4487	.7169	. 5393	. 5466	.4124	.8370	.4330	.7226	.6604
SSALB	0.71046	0/0%	7070	,0%C.	7707	0000	20.00	. 5936	.6316	. 5717	.6680	.7602	. 5527	.7150	.6796	.4902	.6395	.6739	.7688	.5785	. 3728	. 9934	.7301	. 9844	. 2561	.7324	.0137	.9937	. 7968	.0581	.0596	. 5916	.8971	.1159	.6503	. 4737	.8868

^¢¢¢kkolog@√¢¢kolog@√¢¢¢kolo kakkkakkololololololog√¢¢¢kol

9	8999	%	œ					0	۰	_	5		.	. ~				_		_			_	_	_		_	_		_	_	_	_	_	_	-
4	599	383.3	558.59	294.399	445.000	950.699	058.097	655.399	774.5976	906.5000	281.0998	323.8984	961.6999	741.1999	442.1999	190.0998	906.1999	4959.0000	9300.2968	942.8999	177.0998	617.1999	063.7998	919.0000	284.0000	013.6999	809.8984	201.0000	629.633	261.7968	984.0000	926.3999	879.0000	338.2998	507.2998	14.2968
6609.	3.2400	1.5600	7.2099	8.0099	3.7599	4.4100	7600	6400	.8100	.2100	.0100	.2500	. 3600	6.2500	6:0399	0.2500	5.4399	0.0400	.2500	. 9600	.6100	.6100	.8400	.0400	. 2500	.6400	. 5600	.2400	.8900	.4900	. 9600	2.8900	1.3599	5.2900	85.6098	2.0900
931.0000	495.7998	435.7998	901.1999	264.2998	443.0000	820.5000	899,0998	233.6999	928.5000	372.0000	234.8999	336.0976	843.5000	549.0976	235.7000	007.3999	808.1999	8511.0000	6024.1992	565.0000	168.5998	974.7998	884.7998	703.0000	292.0000	726.8999	058.6992	845.0000	529.2998	205.5976	885.7998	575.8999	943.0000	156.6999	187.5999	15.3984
616.1999	249.8999	436.7998	634.8999	097.5000	136.7998	717.3999	386,5998	751.2998	625.0000	631.7998	104.3999	601.1992	944.7968	094.3984	95.5000	30.2998	619.2998	0311.0000	721.6999	05.0000	15.5998	921.5000	010.7998	250.0000	045.0000	642.6999	196.5000	532.3999	115.6999	821.1999	582.1999	174.5998	381.0000	002.8999	128.8999	85.5000
213.0976	587.6999	880.3999	991.0000	219.3999	853.8999	478.2998	502.0976	560.2998	648.0000	770.0000	177.7000	410.0000	738.5000	93.0000	10.5000	23.8999	16.0000	82.0000	15.0998	73.1999	50.0000	295.0000	434.0000	545.0000	049.7998	11.0000	581.7998	269.5998	560.5998	730.1999	562.0000	533.3999	827.0000	149.0000	300.000	000.000
	213.09766 3616.19995 5931.00000 65.60999 9	213.09766 3616.19995 5931.00000 65.60999 9 587.69995 1249.89990 2495.79980 3.24000 2	213.09766 3616.19995 5931.00000 65.60999 9 587.69995 1249.89990 2495.79980 3.24000 2 880.39990 1436.79980 2435.79980 11.56000 4	213.09766 3616.19995 5931.00000 65.60999 9 587.69995 1249.89990 2495.79980 3.24000 2 880.39990 1436.79980 2435.79980 11.56000 4 991.00000 634.89990 901.19995 37.20999 1	213.09766 3616.19995 5931.00000 65.60999 9 587.69995 1249.89990 2495.79980 3.24000 2 880.39990 1436.79980 2435.79980 11.56000 4 991.00000 634.89990 901.19995 37.20999 1 219.39990 2097.50000 3264.29980 98.00999 3	213.09766 3616.19995 5931.00000 65.60999 9 587.69995 1249.89990 2495.79980 3.24000 2 880.39990 1436.79980 2435.79980 11.56000 4 991.00000 634.89990 901.19995 37.20999 1 219.39990 2097.50000 3264.29980 98.00999 3 853.89990 2136.79980 2443.0000 153.75999 4	213.09766 3616.19995 5931.00000 65.60999 9 587.69995 1249.89990 2495.79980 3.24000 2 880.39990 1436.79980 2435.79980 11.56000 4 991.00000 634.89990 901.19995 37.20999 1 219.39990 2097.50000 3264.29980 98.00999 3 853.89990 2136.79980 2443.00000 153.75999 4 478.29980 717.39990 1820.50000 4.41000 1	213.09766 3616.19995 5931.00000 65.60999 9 587.6995 1249.89990 2495.79980 3.24000 2 880.3990 1436.79980 2435.79980 11.56000 4 991.0000 634.89990 901.19995 37.20999 1 219.39990 2097.50000 3264.29980 98.00999 3 853.89990 2136.79980 2445.79980 4.41000 4.41000 478.29980 717.39990 3899.09985 6.76000	213.09766 3616.19995 5931.00000 65.60999 9 587.69995 1249.89990 2495.79980 3.24000 2 880.39990 1436.79980 2435.79980 11.56000 4 991.00000 634.89990 901.19995 37.20999 1 219.39990 2097.50000 3264.29980 98.00999 3 478.29980 717.39990 1820.50000 4.41000 1 502.09766 236.5998 3899.0988 6.6000 1 560.29980 751.29980 1233.69995 6.6000 1	213.09766 3616.19995 5931.00000 65.60999 9 587.6995 1249.89990 2495.79980 3.24000 2 880.3990 1436.79980 2435.79980 11.56000 4 991.0000 634.89990 201.19995 37.20999 1 219.39990 2136.79980 2443.0000 153.75999 4 478.29980 717.39990 1820.5000 4.41000 1 502.09766 2386.59985 3899.09985 6.76000 1 560.29980 751.29980 1233.69995 6.76000 1 560.29980 751.29980 238.50000 0.81000 4	213.09766 3616.19995 5931.00000 65.60999 9 587.6995 1249.89990 2495.79980 3.24000 2 880.3990 1436.79980 2435.79980 11.56000 4 991.0000 634.89990 201.19995 37.20999 1 219.39990 2136.79980 2443.0000 153.75999 4 478.29980 717.39990 1820.5000 4.41000 1 502.09766 2386.59985 3899.09985 6.76000 6 560.29980 721.29985 1233.69995 0.81000 6 548.0000 1625.0000 2528.50995 0.81000 6 770.0000 2631.79980 4372.00000 1.21000 6	213.09766 3616.19995 5931.00000 65.60999 587.6995 1249.89990 2495.79980 3.24000 880.3990 1436.79980 2435.79980 11.56000 991.0000 634.89990 291.19995 37.20999 219.39990 2097.50000 3264.29980 98.00999 478.29980 717.39990 1820.50000 4.41000 502.09766 2386.59985 3899.09985 6.76000 560.29980 725.29980 1233.69995 0.64000 648.00000 2651.79980 4372.00000 1.21000 770.0000 2631.79980 234.89999 0.01000	213.09766 3616.19995 5931.00000 65.60999 587.6995 1249.89990 2495.79980 3.24000 880.3990 1436.79980 2435.79980 11.56000 991.0000 634.89990 291.19995 37.20999 219.39990 2097.50000 3264.29980 98.00999 478.29980 717.39990 1820.5000 4.41000 502.09766 2386.59985 3899.09985 6.76000 560.29980 751.29980 1823.69995 0.64000 648.0000 1625.0000 2628.5000 1.21000 770.0000 2631.79980 234.89999 0.01000 410.0000 4601.19922 7336.09766 0.25000	213.09766 3616.19995 5931.00000 65.60999 587.6995 1249.89990 2495.79980 3.24000 2 880.3990 1436.79980 2435.79980 11.56000 4 991.0000 634.89990 291.19995 37.20999 1 219.3990 2097.5000 3264.29980 98.00999 3 478.29980 717.39990 1820.5000 4.41000 1 502.0976 2386.59985 3899.09985 6.76000 6 560.29980 751.29980 1820.5000 6.76000 6 560.29980 751.29980 4328.5000 0.81000 6 570.00000 2631.79980 4372.6999 0.81000 6 570.00000 2631.79980 4372.6999 0.01000 6 177.70000 104.3999 7336.09766 0.25000 12 5843.5000 645.0000 0.36000 0.36000 12	213.09766 3616.19995 5931.00000 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0.01000 648.00000 4601.19922 7336.09766 0.25000 738.50000 4944.79688 5843.50000 96.05999 410.5000 95.50000 235.70000 96.05999	213.09766 3616.19995 5931.00000 65.60999 587.6995 1249.89990 2495.79980 3.24000 880.3990 1436.79980 2435.79980 11.56000 891.0000 634.89990 291.19995 37.20999 219.39990 2097.50000 3264.29980 98.00999 219.39990 2137.29980 244.61000 153.75999 478.29980 717.39990 1244.0000 16.41000 560.29980 751.29980 1233.69995 6.46000 560.29980 751.29980 1233.69995 6.46000 770.00000 2631.79980 234.8999 0.81000 448.0000 2631.79980 234.8999 0.21000 410.0000 2631.79980 234.8999 0.25000 410.0000 4601.11992 736.88 5843.5000 0.35000 410.50000 4944.7968 5843.5000 0.62500 3 410.50000 95.50000 235.7000 0.25000 3 410.50000 95.5000 235.7000 0.25000 3	213.09766 3616.19995 5931.00000 65.60999 587.6995 1249.89990 2495.79980 3.24000 880.3990 1436.79980 2435.79980 11.56000 880.3990 1436.79980 2435.79980 11.56000 219.39990 2097.50000 244.29980 11.56000 219.39990 2136.79980 246.29980 153.72999 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3899.09985 6.76000 560.29980 717.3999 1820.50000 4.41000 560.29980 737.399 1820.50000 4.41000 560.29980 1820.50000 1.233.699 9985 570.0000 2631.79980 4372.00000 1.21000 570.0000 104.3999 234.8999 0.01000 571.29980 4372.00000 0.25000 1.25000 572.8999 730.2998 234.8999 0.01000 573.8999 730.2998 234.8999 0.25000 573.9999 730.2998 180.2998 1.255.4399 572.00000 1</td><td>213.09766 3616.19995 5931.00000 65.60999 287.69995 1249.89990 2495.79980 3.24000 2880.39990 1248.79980 2495.79980 13.26000 2880.39990 2037.59980 2445.79980 13.26000 219.39990 2037.50000 2643.00000 153.75999 478.29980 2136.79980 2443.00000 165.7699 468.29980 2136.79980 2443.00000 165.0000 560.29980 751.29980 1820.50000 4641000 468.0000 1625.00000 2928.5000 0.81000 470.0000 4601.3992 234.8999 0.01000 410.5000 4601.3984 6549.0976 0.25000 410.5000 4601.3984 6549.0976 0.36000 410.5000 4641.3982 734.5000 0.36000 410.5000 4641.3982 7346.0999 0.01000 410.5000 4641.3982 7346.0999 0.05000 410.5000 4641.3982 7346.0999 0.05000 410.5000</td><td>213.09766 3616.19995 5931.00000 5.60999 2887.69995 1249.89990 2495.79980 3.24000 2880.39990 1245.79980 2455.79980 15.6000 219.39990 2097.50000 2443.0000 15.6000 219.39990 2097.50000 2443.0000 153.75999 2136.79980 2443.0000 153.75999 4.6000 2136.79980 2586.59985 1820.5000 4.41000 2136.79980 2586.59985 1820.5000 4.41000 2137.70000 1625.0000 2928.5000 9.81000 248.0000 1625.0000 2928.5000 9.81000 248.0000 1625.0000 2928.5000 9.81000 248.0000 1625.0000 256000 9.81000 2410.5000 1040.1992 734.8999 0.01000 2410.5000 1046.1398 5843.5000 0.25000 2410.5000 105000 105000 105000 2410.5000 105000 105000 105000 242.0000 1</td><td>213.09766 3616.19995 5931.0000 65.60999 2880.29990 1249.89990 2495.79980 3.24000 2880.29990 1246.89990 2495.79980 3.24000 219.39990 1246.89990 2495.79980 37.26999 219.39990 2097.5000 2647.29980 37.26999 219.39990 2136.79980 2443.0000 4.461000 219.29980 717.29980 2443.20000 4.461000 219.29980 717.29980 2728.29999 6.461000 219.29980 751.29980 1233.69995 6.461000 210.29980 1625.0000 2528.5000 6.26100 210.29980 1625.0000 234.26999 6.25000 210.29980 1626.0000 1626.0000 1626.0000 210.29980 234.26999 1626.0000 1626.0000 210.29980 235.7000 1626.0000 1626.0000 210.29980 235.7000 1626.4399 1626.0000 210.29980 2364900 1626.0000 1626.4399</td><td>213.09766 3616.19995 5931.0000 65.60999 2880.29990 1249.89990 2495.79980 3.24000 2880.29990 1246.89990 2495.79980 17.26090 219.39990 1246.89990 2443.70980 17.26990 219.39990 2136.79980 2443.00000 17.26990 219.39990 2136.79980 2443.00000 17.26990 219.29980 2136.79980 2443.00000 182.75999 2478.29980 2136.79980 2443.00000 1820.0000 250.29980 717.3990 1820.6000 181000 263.79980 236.59985 58990 181000 2648.0000 2631.79980 2372.0999 181000 2648.0000 2631.79980 2343.2099 181000 2648.0000 2644.79688 5843.5000 181000 265.0000 2644.79688 5843.5000 1826.000 266.0000 2644.79688 5843.5000 1826.2999 267.0000 2644.79688 5843.5000 1826.600 <td< td=""><td>213.09766 3616.19995 5931.00000 65.60999 287.69995 1249.89990 2495.79980 3.24000 381.69995 1246.89990 2495.79980 3.24000 381.69990 2436.89980 2491.9988 37.20999 219.39990 2136.79980 2843.0000 153.75999 219.39980 2136.79980 2843.0000 153.75999 219.29980 713.39990 2843.0000 153.75999 219.2980 751.29980 2843.0000 153.75999 220.2980 751.29980 2848.5000 164000 248.60000 2648.0000 2848.5000 164000 250.2980 736.8999 2848.5000 164000 251.79980 235.7000 16500 16500 251.70000 2641.9995 16500 16600 252.885.5000 255.7000 16600 16600 252.886.5000 256.0000 16600 16600 252.886.7000 266.0000 16600 16600 252.886.7000 266.00</td></td<></td></t<>	213.09766 3616.19995 5931.00000 65.60999 287.6995 1249.8999 2495.79980 3.24000 2880.3990 1246.8999 2435.79980 11.56000 281.3990 264.8999 37.20999 1 281.3990 264.8999 37.20999 1 281.29980 2136.79980 37.20999 1 281.29980 717.39990 1820.50000 4.41000 478.29980 717.39990 1820.50000 4.41000 560.29980 751.29980 1820.50000 1.21000 648.0000 164.3999 224.8999 0.25000 177.7000 104.3999 234.8999 0.25000 177.7000 104.3999 224.8999 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2410.5000 105000 105000 105000 242.0000 1	213.09766 3616.19995 5931.0000 65.60999 2880.29990 1249.89990 2495.79980 3.24000 2880.29990 1246.89990 2495.79980 3.24000 219.39990 1246.89990 2495.79980 37.26999 219.39990 2097.5000 2647.29980 37.26999 219.39990 2136.79980 2443.0000 4.461000 219.29980 717.29980 2443.20000 4.461000 219.29980 717.29980 2728.29999 6.461000 219.29980 751.29980 1233.69995 6.461000 210.29980 1625.0000 2528.5000 6.26100 210.29980 1625.0000 234.26999 6.25000 210.29980 1626.0000 1626.0000 1626.0000 210.29980 234.26999 1626.0000 1626.0000 210.29980 235.7000 1626.0000 1626.0000 210.29980 235.7000 1626.4399 1626.0000 210.29980 2364900 1626.0000 1626.4399	213.09766 3616.19995 5931.0000 65.60999 2880.29990 1249.89990 2495.79980 3.24000 2880.29990 1246.89990 2495.79980 17.26090 219.39990 1246.89990 2443.70980 17.26990 219.39990 2136.79980 2443.00000 17.26990 219.39990 2136.79980 2443.00000 17.26990 219.29980 2136.79980 2443.00000 182.75999 2478.29980 2136.79980 2443.00000 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E .	25.89999	0.2999	1.5000	1.8999	9.0000	8999	9.6000	7.8999	1.0999	6 . 0 9 9 9	4.2000	4.4000	.9000	0.4000	9.1000	9.2999	8.8999	. 5000	9.0000	7.4000	7.5999	0.9000	5.4000	1.7000	9000		8000	9.2000	1.5000	5.7000	4.5000	9.2999	4.7000	9660.
SHEQ8	2314.79980	999.0000	266.2998	66.7998	306.1999	03.0998	512.5000	482.3999	303.5000	740.1999	130.5000	734.8999	98.6999	454.6999	140.2000	77.0998	188.8999	000.00	302.5000	803.0000	453.0000	053.2998	1874.0000	453.0000	250.0000	0001.1979	12.5998	413.5998	384.3999	303,0000	401.2998	562.0000	153.7998	8.7000 9.8999
8	0.60971	5898	.7045	.6425	.8746	3940	.6120	6083	. 5548	.6019	74444	.6272	.8319	.7778	.4051	. 3638	.7662	.5570	.6177	.4664	.6123	.4656	. 5176	. 3838	9505	7261	5 3 8 6	7295	4330	5483	.4560	.8253	.4650	.6871
SALS	0.62922	. 5556	.5782	.9908	. 5496	. 9332	. 6436	.7452	.6133	.6330	.8356	. 5952	.0762	.7505	.5330	.6292	.8918	.7416	.6477	. 5961	.9927	.7545	. 9559	. 4455	4/40.	400	8887	5749	9868	.5790	.8802	.1350	.6460	. 3698

BKLG79	DEBI79		PVAR79	SALES79
. 5000	49.6999	97.1992	.1599	31.0000
. 5998	281.3999	434.6999	6.2500	307.5000
0000.	178.7998	004.7998	3.0399	641.7998
. 5998	565.6999	793.5998	1.0000	372.6999
8999	722.3999	653.1999	8.8900	067.7998
8999	30.0000	113.0000	2.2499	058.0000
0000.	804.0000	773.5000	0.1600	060.7998
0000	02.3999	380.5998	. 2900	278.5000
.0000	570.0000	990.3999	3599	582.5000
0000.	537.6999	624.1999	1.9600	774.5976
0000.	33.8999	073.0998	0000	176.3984
.7000	65.5999	130.8999	8400	164.0999
.0000	958.5000	468.0976	0.8100	053.2968
3999	410.6992	300.3984	7600	862.7998
.5000	71.0976	65.8984	.2500	73.7998
. 5998	108.5999	216.7000	.8900	393.6999
. 2998	19.8999	50.0998	0.0000	34.0000
.0000	19.5000	355.5998	.8900	717.7998
.0000	282.1992	644.5000	0.6400	460.5976
. 2998	07.7998	371.1992	.2900	8238.6992
. 5998	775.7998	546.5998	.0000	806.0000
0000	75.1999	822.6999	6.8100	982.0998
.0000	771.5998	761.0998	8.0900	345.3999
8660.	22.6999	339.5998	.8900	504.5998
0000.	548.7968	530.0000	1.9600	473.0000
1999	804.3999	1903.3999	2.8900	713.6999
0000.	902.8984	392.3984	0069.	636.1999
1999	230.3984	990.1992	6.7600	454.5976
.2998	8667.999	850.5000	8.4399	241.1992
0000.	099.8999	482.3999	. 5598	598.0998
.7998	093.5000	724.0998	8.4100	201.5976
. 3999	55.0000	749.0000	0069.	560.0000
.8999	755.3999	030.7998	.0000	705.5998
0000.	557.0000	795.0000	.0400	548.0000
.0000	994.0998	79.0998	9.6100	92.8999
000	130.7000	152.3999	6609.	6669
. 0000	71.5000	21.5000	10.2499	32.0000

0E7	1.6999 1.7000 1.7000 0.2999	M	104.9 104.9 104.9 105.0 106.0 10	3.3000
SHEQ7	53.2998 26.0000 27.8999 30.7998	885.0000 69.5000 78.1999 20.3999 86.5000 39.1999 34.8984	NA	0 0000 0
EV7	. 5226 . 5226 . 7226 . 7452	**************************************	00.350000000000000000000000000000000000	.6701
SSAL 7			0.552 0.552	.9303

	TABLE 8 (CONTINUED)	
SALES7	25463.000000000000000000000000000000000000	
VARZ	16.81000 561.68994 761.68994 3.24000 3.24000 16.88994 11.44000 2.25000 2.25000 44.0000 15.21000 16.25000 17.44000 17.44000 18.48999 19.21000 19.25000	
ASSTZ	2573 19995 12748 - 699985 1578 - 699985 1579 199985 1565 199985 1692 199995 1692 199995 1692 199995 1693 199995 172 1 199995 172 1 199995 172 1 199995 173 173 173 173 173 173 173 173 173 173	
DEBTZ	NA O O O O O O O O O	
BKLG7	6915.50000 786.39990 786.39990 2556.89995 2556.89995 2556.89995 257.50000 2930.00000 2930.00000 717.00000 717.00000 717.00000 7185.89990 828.89990 1786.89990 824.00000 1786.89990 1786.89990 824.00000 824.00000 824.00000 826.00000 826.00000 826.00000 826.00000 826.00000 826.00000 826.00000	
	388888200000000000000000000000000000000	
	49	

| 8999 | 8000 | .2000 | 0000. | . 5999 | 7000 | 4000 | 7999 | 5000 | .0000 | .2000 | .2000 | . 3999 | . 5000 | .8000 | . 2999 | 6660. | .7000 | .7000 | .9000

 | .7999 | 8000 | 0009.
 | 6660. | . 3000 | .2000 | . 3999 | .0999 | .9000
 | .3000 | .7999 | .7000
 | .0999 | . 5999 | 9000 |
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| . 5998 | 0000 | .3999 | . 2998 | 0000. | 8999 | 7998 | 0000 | 8660. | . 5998 | . 5000 | .7998 | .1999 | 8999 | . 2999 | . 5998 | .7999 | .6992 | .1999 | . 5000

 | .1999 | . 3999 | . 3999
 | . 5976 | 6669. | 6669. | . 2998 | 7998 | . 5000
 | .2998 | .0000 | 6669.
 | .0000 | .8999 | . 5000 |
| 147 | 67 | 21 | 75 | 28 | 98 | 119 | S N | 73 | 135 | 'n | 177 | 52 | 105 | 6 | 96 | 6 | 658 | 210 | 89

 | 27 | 8 | 136
 | 1349 | 95 | 36 | 159 | 100 | \$₹
 | 143 | 103 | 86
 | 129 | 101 | 243 |
| 5876 | 6210 | .6405 | .4497 | .8345 | .4480 | .6127 | 6176 | 6848 | 6110 | .4821 | . 5648 | .8385 | .8293 | .4640 | .3391 | .6442 | . 5619 | . 5969 | . 5175

 | .6129 | .4686 | .5168
 | .3802 | .4212 | .9230 | .6718 | . 5870 | .6596
 | . 5635 | . 5663 | .4549
 | .7622 | .4889 | .9185 |
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| .6540 | .6150 | .4345 | .3777 | .4855 | .8902 | .7501 | . 5088 | .6399 | .6529 | 7477 | .6502 | .7184 | .3156 | . 5058 | .6081 | . 5056 | .7650 | .6985 | .1794

 | .8241 | . 3340 | .9931
 | .3725 | .7462 | . 5761 | .7382 | .6785 | . 5813
 | .8945 | .6289 | .6504
 | .0012 | .6153 | . 5045 |
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| | .65407 0.58760 1473.59985 21.8999
.77209 0.53344 1049.19995 13.1000 | .65407 0.58760 1473.59985 21.8999
.77209 0.53344 1049.19995 13.1000
.61502 0.62107 674.00000 -6.8000 | .65407 0.58760 1473.59985 21.8999
.77209 0.53344 1049.19995 13.1000
.61502 0.62107 674.00000 -6.8000
.43451 0.64059 216.39999 9.2000 | .65407 0.58760 1473.59985 21.8999
.77209 0.53344 1049.19995 13.1000
.61502 0.62107 674.00000 -6.8000
.43451 0.64059 216.39999 9.20000
.37772 0.44974 759.29980 -12.0000 | .65407 0.58760 1473.59985 21.8999
.77209 0.53344 1049.19995 13.1000
.651502 0.62107 674.00000 -6.8000
.43451 0.64059 216.39999 9.2000
.37772 0.44974 759.29980 -12.0000
.48551 0.83452 280.00000 19.5999 | .65407 0.58760 1473.59985 21.8999
.77209 0.5334 1049.19995 13.1000
.61502 0.62107 674.00000 -6.8000
.43451 0.64059 216.3999 9.2000
.37772 0.44974 759.29980 -12.0000
.48551 0.83452 280.00000 19.5999
.89023 0.44806 863.89990 15.7000 | .65407 0.58760 1473.59985 21.89999
.61502 0.62107 674.00000 -6.80000
.43451 0.64059 216.39999 9.20000
.37772 0.44974 759.29980 -12.00000
.48551 0.83452 280.00000 19.59999
.89023 0.44806 863.89990 15.7000 | .65407 0.58760 1473.59985 21.89999
.61502 0.62107 674.00000 -6.80000
.43451 0.64059 216.39999 9.20000
.3772 0.44974 759.29980 -12.00000
.48551 0.83452 280.00000 19.59999
.89023 0.44806 863.89990 15.7000
.75013 0.61274 1199.79980 | .65407 0.58760 1473.59985 21.89999
.61502 0.62107 674.00000 -6.80000
.43451 0.64059 216.39999 9.20000
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.48551 0.83452 280.00000 19.59999
.89023 0.44806 863.89990 15.7000
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.63991 0.68487 739.09985 24.5000 | .65407 0.58760 1473.59985 21.89999
.61502 0.62107 674.00000 -6.80000
.43451 0.64059 216.39999 9.20000
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.48551 0.83452 280.00000 19.5999
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		- F		
6	660.60	440	10.24000	018.0
666	189.6999	141.5000	0.6400	292.1999
200	68.6998	601.0998	0000	597.2998
999	6669	12.7998	0.0000	-
000	50.0000	569.0000	0399	348.0000
000	651.0998	376.6999	2.0900	439.6999
000	11.6999	467.5000	0.2500	544.6999
000	462.1999	747.3999	7.2099	601.2998
000	18.8999	42.2998	5.7600	182.0998
000	078.1999	330.2998	2.2500	390.5000
000	55.7999	80.5000	8008.	148.5999
000	522.5000	979.2998	0.1600	50.5976
968	79.0998	113.0000	4.8100	717.0000
968	860.5000	27.5000	1.9600	01.3999
666	99.0000	137.5999	.7599	347.2998
666	38.7998	92.3999	0.0400	30.7998
000	133.7999	207.3999	.0900	399.2998
000	53.8984	896.7968	0.000.0	18.5976
666	704.0000	677.8984	.8100	627.7968
866	617.2c78	225.7998	.0000	619.5998
000	49.6000	579.1999	2.8900	646.1999
000	694.2998	477.5000	6600.	6669. 269
966	239.3999	429.2998	0.2500	312.5998
000	359.8984	978.3984	.0100	9260.090
000	580.3999	419.7998	0.0100	853.5000
000	61.5998	601.8999	.6398	120.0999
2998	921.3999	351.6992	14.4400	880.8984
000	278.5998	152.7998	0.3600	964.3999
000	018.0000	461.8999	.6899	284.7998
000	545.6999	841.7998	1.6900	292.0998
000	167.0000	092.0000	.1600	264.0000
968	759.8999	443.0998	.8400	209.6999
000	10.2998	864.6992	.0099	928.0000
00	816.5000	38.1999	6.2500	02.1999
000	97.5000	108.2999	.9599	213.2000
000	3.6999	527.5976	0.0900	37.6992

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SSAL 7	6073 9342 6164	4103	544 544 544 544 544 544 544 544 544 544		0.87030 1.05046 2.68812 29.99083 0.73997 0.63984 0.64093 0.65307 0.62030 0.50797

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000	1.2998 3.1999 6.7998	0000	4.4100 0.4900 7.0399	1320
542	. 7998 . 0000 . 3999	057.0000 586.0000 243.2998	. 2499 . 3599 . 6099	354 188 213
32	. 2998 . 0998 . 7998	129.5998 550.8999 704.0000	0.4900 1.4400 0.2500	543.6 265.0 771.1
72	3999	898.7998 93.7000	.0399	691.1 170.2
o o vi	. / 998 . 6999 . 1999	26 . 3999 27 . 1999 44 . 0000	1.4400 2.0900 9.0000	166.19 617.19 114.50
~60	. 1999 . 1999 . 5000	127.2999 153.3999 165.8999	6.2399 2.8900 4.0399	319.89 695.19 263.59
	6992 7998 5000	049.6992 427.6992 129.5000	0.3600 9.0000 8.0000	697.29 791.50 225.39
265	8660.	41.0998 30.1999	5.2900	513.79 595.89
926	5998	297.5998 723.2968	0.4900 7.2900	537.50 959.39
500	. 0000	540.5000 837.6999	. 2070	328.59 328.50
ō ~ ~	6669. 0000.	589.0000 587.2998	. 7599 . 5600	4.699 6.299 6.299
73	. 0000 . 8999	916.0000 228.5000	8.0099	929.000
S	8660	262.6992 523.0998	42.2499	535.000 627.099
0~	.8999	115.7999 318.2968	.9599 .6400	247.7000 145.1992

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	SSAL 7	EV7	SHEQ7	0E7
_	0.51481		1084.79980	•
	.9291	.5476	68.1999	0000.
	.6557	. 5580	44.0000	6.2000
	. 3996	.7421	90.000	2.4000
_	.6132	.6080	06.1999	3.5000
_	.4974	.8947	67.0000	5.7999
	. 0248	.4708	57.8999	1.9000
	6009	.5561	45.2998	1.5000
	.4354	.5901	25.7999	5.9000
	.6149	.6853	36.1999	9.7000
	6119.	. 5924	81.5000	0.3000
-	.5502	.6873	29.2999	. 5000
	. 5083	. 5261	44.5998	2.7000
	3629	8646	31.5000	7.2000
	.8720	5087	05.7998	4.9000
	3979	5561	56.5000	5 7000
	6803	3663	56.1999	7 0000
	6293	6057	6668 89	7.77
_	7676	5660	253 0000	7.7000
	7645	5797	6668.09	5000
•	.9217	8317	190.0000	4.3000
-	.8585	. 5461	00.2000	3.4000
-	.8961	. 4657	64.0998	4.5000
-	.1168	.4881	28.0000	0.000.0
••	.8439	4319	37.1999	.2000
	.9740	.2806	49.2968	8.7999
	.8443	.9551	158.7000	8.2000
	.7202	.6670	77.6999	3.9000
-	.7752	.5716	814.1999	8.0000
	.7514	.7650	73.2998	9.8999
	.8044	.5470	69.2998	2.4000
-	.6541	. 5668	30.0000	2.2000
-	.6340	. 5982	93.5998	7.2999
_	.9399	6233	05.5998	7.2000
-	.5797	489	9.2998	000
	.4675	.9093	10.5000	2.4000
_	.8654	. 5979	8.3999	0.4000

LIST OF REFERENCES

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